

REMARKS

In the Office Action, the Examiner rejects Claims 3, 9 and 15 under 35 USC §112 as being indefinite. In particular, the Examiner states that the term “{110} direction” needs to be defined in the claims. Accordingly, Applicants have amended each of these claims to delete “the plane of” and to change “is oriented substantially in a {110} direction” to -- comprise a crystal grain having a {110} plane orientation --. It is respectfully submitted that this overcomes the Examiner’s objection to the claims and that the claims are now in an allowable condition.

The Examiner also has the following rejections under 35 U.S.C. §103(a):

1. Claim 1 as being unpatentable over Schoolman taken with Dwyer, III;
2. Claims 2 and 4 as being unpatentable over Schoolman taken with Dwyer, III and further in view of Funai et al.;
3. Claim 5 as being unpatentable over Schoolman taken with Dwyer, III further in view of Intriligator taken with Lewis;
4. Claim 6 as being unpatentable over Schoolman taken with Dwyer, III and further in view of Nishi et al.;
5. Claims 7 and 13 as being unpatentable over Schoolman taken with Dwyer, III and further in view of Beller et al.;
6. Claims 8, 10, 14 and 16 as being unpatentable over Schoolman taken with Dwyer, III in view of Beller et al and further in view of Funai et al.;
7. Claims 11 and 17 as being unpatentable over Schoolman taken with Dwyer, III in view of Beller et al and further in view of Intriligator taken with Lewis; and
8. Claims 12 and 18 as being unpatentable over Schoolman taken with Dwyer, III in view of Beller et al and further in view of Nishi et al.

These rejections are respectfully traversed.

The present invention, as claimed, is directed to an information processing device comprising a display device mounted on the head of a user. As recited in amended independent Claims 1 and 13, the information processing device also comprises a camera or image pick-up device. Applicants have reviewed the cited references and believe that other than Beller, which is cited in the rejection of Claims 7 and 13, none of the references disclose or suggest a camera or image pick-up device in a information processing device which has a display device mounted on the head of a user. Further, as explained below, Applicants respectfully submit that Beller also does not disclose or suggest the claimed device.

Beller discloses a camera system 15. When the head mounted display of Beller is mounted on the head of a user, the camera system 15 is also mounted on the head of a user. As recited in the Abstract, the system in Beller provides interactive visual and audio communications between a user of the head mounted system and an operator of a remote system. The camera system picks up an image within at least a portion of the user's field of view. This is accomplished by mounting the camera system on the head of the user. Data representing the image is transmitted to the remote system of the operator. This system is designed for remote equipment maintenance and repair work so that the repair person can have a hands-free operation while communicating with a remote supervisor who can see the problem before the repair person and offer verbal assistance (see col. 1, lns. 32-44). The camera system, however, is limited to the user's field of vision.

In contrast, the information processing device of the claimed invention has the camera or image pick-up device provided *over the input operation device*, such as for example the keyboard. Accordingly, it is possible to pick up the image by the camera or the image pick-up device without regard to the user's field of view.

Therefore, it is respectfully submitted that the cited references do not disclose or suggest the information processing device of amended independent Claims 1 and 13 and those claims dependent thereon. Hence, it is requested that these claims now be allowed.

Applicants have now amended Claim 7 to recite that a clock signal having a frequency of 50 MHz to 60 MHz. Applicants believe that the information processing device of amended Claim 7 is not disclosed or suggested by the cited references.

Accordingly, it is respectfully submitted that the claims of the present application are patentably distinguishable over the cited reference and that the claims should now be allowed.

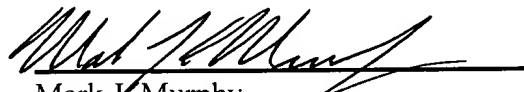
If any further fee is due for additional claims or the extension of time, please charge our deposit account 50/1039.

Favorable reconsideration is earnestly solicited.

Respectfully submitted,

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Mark J. Murphy
Registration No. 34,225

COOK, ALEX, McFARRON, MANZO,
CUMMINGS & MEHLER, LTD.
200 West Adams Street
Suite 2850
Chicago, Illinois 60606
(312) 236-8500

Marked-up copies of the claims as amended:



1.(Amended) An information processing device comprising:

a display device having flat panel displays for right and left eyes mounted on the head of a

a controller connected to said display device; [and]

an input operation device connected to said controller; and

a camera provided over said input operation device,

wherein said flat panel displays are capable of displaying a plurality of pieces of information at a time.

3 (Amended) A device according to claim 2, wherein [the plane of] said channel formation regions [is oriented substantially in a {110}-direction] comprise a crystal grain having a {110} plane orientation.

7 (Amended). An information processing device comprising:

a display device having flat panel displays for right and left eyes mounted on the head of a user, each of said flat panel displays comprising a pixel thin film transistor and a driver thin film transistor provided on a same substrate, said driver thin film transistor provided in a driving circuit;

a controller; and

an input operation device connected to said controller,

wherein said controller transmits a signal in the form of an electric wave to said display device and wherein said flat panel displays are capable of displaying a plurality of pieces of information at a time and wherein a clock signal supplied to said driving circuit has a frequency of 50MHz to 60MHz.

9(Amended). A device according to claim 8, wherein [the plane of] said channel formation regions [is oriented substantially in a {110}-direction] comprise a crystal grain having a {110} plane orientation.

13(Amended). An information processing device comprising:
a display device having flat panel displays for right and left eyes mounted on a head of a user;
a controller;
[an image pick-up device; and]
an input operation device connected to said controller; and
an image pick-up device provided over said input operation device,
wherein said controller transmits a signal in the form of an electric wave to said display device,
wherein said image pick-up device converts at least images of said input operation device and a hand
of said user into electrical signals and supplies said electrical signals to said controller and wherein
said flat panel displays display a plurality of pieces of information including at least said images of
the input operation device and said hand of the user at a time.

15 (Amended). A device according to claim 14, wherein [the plane of] said channel formation regions [is oriented substantially in a {110}-direction] comprise a crystal grain having a {110} plane orientation.

Please add new claims as follows.

-- 19. A device according to claim 1 wherein said camera is provided apart from said display device. --

--20. A device according to claim 7 wherein said driving circuit comprises a source-side driving circuit. --

--21. A device according to claim 13 wherein said image pick-up device is provided apart from said display device. --